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(74) Agents: JEHAN, Robert et al.; Williams Powell, Morley
House, 26-30 Holborn Viaduct, London EC1A 2BP (GB).

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(71) Applicant (*for all designated States except US*): THE
SECRETARY OF STATE FOR TRADE AND INDUS-
TRY [GB/GB]; 1 Victoria Street, London SW1 0ET (GB).

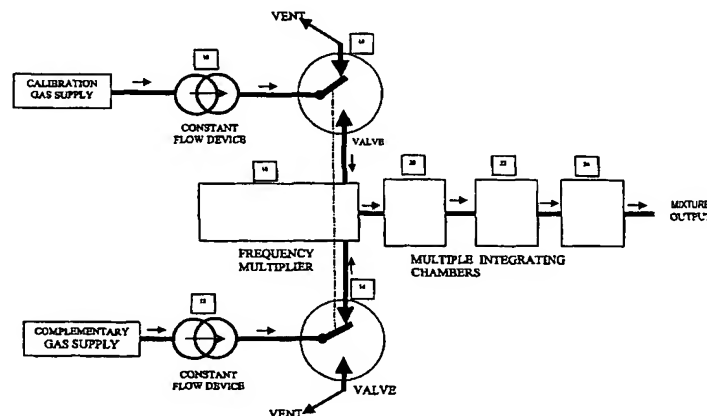
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(72) Inventor; and

(75) Inventor/Applicant (*for US only*): GOODY, Brian,
Arthur [GB/GB]; National Physical Laboratory, Queens
Road, Teddington, Middlesex TW11 0LW (GB).

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: PRODUCTION OF VARIABLE CONCENTRATION FLUID MIXTURES



(57) Abstract: In a fluid mixing device calibration and complementary gases are supplied to constant flow devices (10, 12). The flows through devices (10, 12) are adjusted to be equal. The two gas flows are connected to switching valves (14, 16), which allow the gas flows to be either vented or fed to the frequency multiplier (18). The two valves (14, 16) are coupled to switch simultaneously but in opposite positions. Thus, the flow rate into the frequency multiplier (18) is constant but may be switched to comprise either calibration or complementary gas. The frequency multiplier divides the input stream into a number of equal streams which, after different time delays have been introduced, are recombined to produce a single stream of reduced concentration ripple and periodicity. The output from the frequency multiplier (18) fed to a series of chambers (20-24) where each chamber produces an attenuation of the concentration ripple and a time response to a change in concentration. As the attenuations of the chambers (20-24) are multiplicative and the time responses are additive, multiple chambers give a higher ratio of ripple attenuation to time response than does a single chamber. Better and faster production of substantially homogenised fluid mixtures is possible.

INTERNATIONAL SEARCH REPORT

International Application No.

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A. CLASSIFICATION OF SUBJECT MATTER

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G01N33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01F G05D G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 6 047 719 A (H. RÜTHER ET AL) 11 April 2000 (2000-04-11) claims; figure	1
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cordero Alvarez, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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